

## **CLAIMS**

We Claim:

**1. A Combination Smoke Alarm and Wireless Location Device, comprising:**

- (a) a smoke sensor and sensor alarm control circuit that generates alarm signals upon sensing a predetermined threshold of smoke
- (b) a wireless telecommunications transceiver module that stores and transmits predetermined emergency identification data upon receiving said alarm signals from said sensor alarm control circuit
- (c) a power source that supplies electrical power to said Combination Smoke Alarm and Wireless Location Device
- (d) a audible alarm that generates a high decibel sound upon receiving said alarm signals from said sensor alarm control circuit.

**2. The Combination Smoke Alarm and Wireless Location Device in claim 1, further comprising a wireless telecommunication location system that receives, processes said predetermined emergency identification data from said wireless telecommunications transceiver module, and determines the geographic location of said Combination Smoke Alarm and Wireless Location Device.**

**3. The Combination Smoke Alarm and Wireless Location Device in claim 1, further comprising a Public Safety Answering Point that receives said processed predetermined emergency identification and location data and dispatches emergency response resources to the geographic location of said Combination Smoke Alarm and Wireless Location Device.**

**4. A Combination Smoke Alarm and Wireless Location Device, comprising:**

- (a) smoke sensor and sensor alarm control circuit means for generating alarm signals upon sensing a predetermined threshold of smoke
- (b) wireless telecommunications transceiver module means for storing and transmitting predetermined emergency identification data upon receiving said alarm signals from said sensor alarm control circuit
- (c) power source means for supplying electrical power to said Combination Smoke Alarm and Wireless Location Device
- (d) audible alarm horn means for generating a high decibel sound upon receiving

said alarm signals from said sensor alarm control circuit

(e) wireless telecommunication location system means for receiving, processing, said predetermined emergency identification data from said wireless telecommunications transceiver module, and determining the geographic location of said Combination Smoke Alarm and Wireless Location Device.

(f) Public Safety Answering Point means for receiving said processed predetermined emergency identification and location data from said wireless telecommunication location system and dispatching emergency response resources to the geographic location of said Combination Smoke Alarm and Wireless Location Device.

5. The Combination Smoke Alarm and Wireless Location Device in claim 4, further comprising Global Positioning System receiver module means interfaced with said wireless telecommunications transceiver module, wherein augmented location determination is provided.

6. The Combination Smoke Alarm and Wireless Location Device in claim 4, further comprising Wireless local area network transceiver module means interfaced with said sensor alarm control circuit, for storing, transmitting, and receiving encoded activation signals from a plurality of Combination Smoke Alarm and Wireless Location Devices.

7. The Combination Smoke Alarm and Wireless Location Device in claim 4, further comprising strobe light means for generating a visual alarm.

8. The Combination Smoke Alarm and Wireless Location Device in claim 4, further comprising radio frequency signal strength circuit and indicator light means, interfaced with said wireless telecommunications transceiver, for measuring the signal strength of said wireless telecommunication location network system.

9. The Combination Smoke Alarm and Wireless Location Device in claim 4, wherein said electrical power source comprises a alternating current and direct current power management and transformer system means, for transforming alternating current power to direct current power in the event alternating current power is interrupted.

10. The Combination Smoke Alarm and Wireless Location Device in claim 4, further comprising a alarm disable button means for temporarily disabling said sensor alarm control circuit and said alarm signals.

11. The Combination Smoke Alarm and Wireless Location Device in claim 4, further comprising a time delay control circuit and selector switch means for temporarily delaying said alarm signals from said sensor alarm control circuit.

12. A method for automatically determining the geographic location of smoke alarms and automatically dispatching emergency response resources utilizing wireless telecommunication location systems, comprising the steps of:

- (a) Providing a smoke alarm for sensing a predetermined threshold of smoke and generating alarm signals
- (b) Providing a wireless telecommunication transceiver module, interfaced with said smoke alarm, for storing and transmitting predetermined emergency identification data upon receiving said alarm signals from said smoke alarm.
- (c) Providing a wireless telecommunication location system for receiving, processing, and said predetermined emergency identification data from said wireless telecommunications transceiver module, and determining the geographic location of said smoke alarm.
- (d) Providing a Public Safety Answering Point for receiving said processed predetermined emergency identification and location data signals from said wireless telecommunication location system and dispatching emergency response resources to the geographic location of said smoke alarm.

Whereby upon sensing a predetermined threshold of smoke, said smoke alarm generates said alarm signals, triggering said wireless telecommunication transceiver module to transmit said predetermined emergency identification data

Whereby upon transmission of said predetermined emergency identification data from said wireless telecommunications transceiver module, said wireless telecommunication location system receives, processes, and sends said processed predetermined emergency identification and location data to said Public Safety Answering Point, who dispatches said emergency response resources to the geographic location of said smoke alarm.

13. The method for automatically determining the geographic location of smoke alarms and automatically dispatching emergency response resources utilizing wireless telecommunication location systems in claim 12, further comprising the step of providing a Global Positioning System

for augmented location determination.

14. The method for automatically determining the geographic location of smoke alarms and automatically dispatching emergency response resources utilizing wireless telecommunication location systems in claim 12, further comprising the step of equipping said emergency response resources with mobile wireless communication and computing device means configured to directly receive from said wireless telecommunication location system said processed emergency identification and location data, wherein said emergency response resources may directly respond to the geographic location of said smoke alarm.